

Ptolemy's Almagest Paperback

Pappus of Alexandria Book 7 of the Collection Proclus, ›Hypotyposis Astronomicarum Positionum‹ Absolute or relative motion ? : a study from a Machian point of view of the discovery and the structure of dynamical theories Ptolemy's Tetrabiblos, Or Quadripartite A Brief History of Numbers Natural Philosophy Epitomised: Books 8-11 of Gregor Reisch's Philosophical pearl (1503) A Source Book in Medieval Science De Visione Stellarum Menelaus' ›Spherics‹ Kepler's Geometrical Cosmology Studies in Medieval Astronomy and Optics Episodes From the Early History of Astronomy Cosmos The Discovery of Dynamics Jaghmīnī's Mulakhkha Handbook of the History and Philosophy of Mathematical Practice Overcoming Ptolemy Following the Cloud - A Vision of the Convergence of Science and the Church When the Earth Was Flat From Eudoxus to Einstein Alexander Jones Argyro Lithari Julian B. Barbour Ptolemy Leo Corry Sachiko Kusukawa Edward Grant Dan Burton Roshdi Rashed J. V. Field J.L. Mancha Asger Aaboe Alexander von Humboldt Julian B. Barbour Sally P. Ragep Bharath Sriraman Geoffrey C. Gunn Harold Curtis Dirk L. Couprie C. M. Linton

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the seventh book of Pappus's collection his commentary on the domain or treasury of analysis figures prominently in the history of both ancient and modern

mathematics as our chief source of information concerning several lost works of the greek geometers euclid and apollonius and as a book that inspired later mathematicians among them viete newton and chasles to original discoveries in their pursuit of the lost science of antiquity this presentation of it is concerned solely with recovering what can be learned from pappus about greek mathematics the main part of it comprises a new edition of book 7 a literal translation and a commentary on textual historical and mathematical aspects of the book it proved to be convenient to divide the commentary into two parts the notes to the text and translation and essays about the lost works that pappus discusses the first function of an edition of this kind is not to expose new discoveries but to present a reliable text and organize the accumulated knowledge about it for the reader's convenience nevertheless there are novelties here the text is based on a fresh transcription of vat gr 218 the archetype of all extant manuscripts and in it i have adopted numerous readings on manuscript authority or by emendation that differ from those of the old edition of hultsch moreover many difficult parts of the work have received little or no commentary hitherto

proclus hypotyposis astronomicarum positionum a late antique astronomical treatise has been transmitted through byzantine codices which usually record it among mathematical philosophical or historical works in the modern era specific passages of the hypotyposis have attracted the interest of historians of greek astronomy and of scholars dealing with neoplatonic cosmology while the greatest part of it has been strikingly neglected the present book offers a close reading of the entire hypotyposis and an overall interpretation of its aim and scope within the framework of greek mathematical treatises and proclus works it re-examines individual topics already touched upon in the secondary literature and sheds light on aspects of the treatise that have gone unnoticed it includes the greek text with an english translation and a full scale philosophical and mathematical commentary framed by an introduction and a study of the astronomical diagrams and illustrations accompanying the text of byzantine manuscripts the book aspires to re-introduce the hypotyposis to the scholarly community by lifting obstacles emerging from the technical character of the treatise and by revealing its hidden treasures

this is the story behind the idea of number from the pythagoreans up until the turn of the 20th century through greek islamic european mathematics

gregor reisch's the philosophical pearl margarita philosophica first published in 1503 and republished 11 times in the sixteenth century was the first extensive printed text which discussed the disciplines taught at university to achieve widespread dissemination this distinguishes it from printed editions of individual texts of aristotle and other authorities it is presented as a dialogue between master and pupil covering the seven liberal arts natural philosophy and moral philosophy and with illustrations throughout it has received remarkably little attention in its own right as a work of education which helped shape the world view of sixteenth

century educated men its author was a carthusian monk this volume presents an edited translation and an extensive introduction of the four books which deal with natural philosophy the predecessor of modern science these books clearly show the extent to which for reisch the study of nature was still primarily undertaken for christian ends not only was nature studied as god's creation but the study of the soul a central part of natural philosophy pursued on aristotelian lines and its fate was here completely integrated with the salvation or damnation of the individual christian as taught in the bible and by the church fathers especially augustine natural philosophy for reisch was a discipline which was as concerned with god and the bible as it was with nature and aristotle

this source book explores a millennium of european scientific thought accompanied by critical commentary and annotation nearly half the selections appear for the first time in the vernacular representing science in the medieval sense selections include alchemy astrology logic and theology as well as mathematics physics and biology

in this critical edition of nicole oresme's 14th century treatise on atmospheric refraction oresme uses optics and infinitesimals to help solve this vexing problem of astronomy proposing that light travels along a curve through the atmosphere centuries before hooke and newton

despite its importance in the history of ancient science menelaus spherics is still by and large unknown this treatise which lies at the foundation of spherical geometry is lost in greek but has been preserved in its arabic versions the reader will find here for the first time edited and translated into english the essentials of this tradition namely a fragment of an early arabic translation and the first arabic redaction of the spherics composed by al mähānī al harawī together with a historical and mathematical study of menelaus treatise with this book a new and important part of the greek and arabic legacy to the history of mathematics comes to light this book will be an indispensable acquisition for any reader interested in the history of ancient geometry and science and more generally in greek and arabic science and culture

kepler is a key figure in the development of modern astronomy his work is also important in the history of philosophy and methodology of science as a whole the present study is concerned with one of kepler's major preoccupations namely his search for the geometrical plan according to which god created the universe the author discusses how kepler's cosmological theories which embrace music and astrology as well as astronomy are related to his other work the subject will be of great interest to historians of science mathematicians and astronomers as well as to historians of the late renaissance

in this selection of studies j l mancha explores aspects of the development of medieval optics and astronomy including some medieval antecedents of the work of early modern astronomers the articles deal with latin hebrew and arabic texts and the process of translation and transmission of knowledge and focus on three main themes first the theory and astronomical use of the pinhole camera in the 12th and 13th centuries the texts edited here contain a solution to the problem of the formation of images cast by light through triangular apertures equivalent to kepler's a description of the correct procedure for measuring solar apparent diameters using finite apertures and a derivation of the sun's eccentricity from its apparent diameters at apogee and perigee second the characteristics of the latin and provençal versions of levi ben gerson's astronomical work composed in collaboration with the author as well as his tables and canons for finding syzygies and the mathematical methods used in the derivation of parameters third different aspects of the survival of homocentric astronomy in the middle ages especially al bitruji's model for trepidation and the technique for calculating the hippopede resulting from eudoxan couples

phenomena in the heavens are of great importance to many and much of the lore of astronomy and astrology dates back to the earliest days of civilisation the astronomy of the ancients is thus of interest not only as history but also as the basis for much of what is known or believed about the heavens today this book discusses important topics in babylonian and greek astronomy

ever since newton created dynamics there has been controversy about its foundations are space and time absolute do they form a rigid but invisible framework and container of the universe or are space time and motion relative if so does newton's framework arise through the influence of the universe at large as ernst mach suggested einstein's aim when creating his general theory of relativity was to demonstrate this and thereby implement mach's principle however it is widely believed that he achieved only partial success this question of whether motion is absolute or relative has been a central issue in philosophy the nature of time has perennial interest current attempts to create a quantum description of the whole universe keep these issues at the cutting edge of modern research written by the world's leading expert on mach's principle the discovery of dynamics is a highly original account of the development of notions about space time and motion widely praised in its hardback version it is one of the fullest and most readable accounts of the astronomical studies that culminated in kepler's laws of planetary motion and of the creation of dynamics by galileo descartes huygens and newton originally published as absolute or relative motion vol 1 the discovery of dynamics cambridge the discovery of dynamics provides the technical background to barbour's recently published the end of time in which he argues that time disappears from the description of the quantum universe

this book provides the only critical edition and english translation of *ma mūd al jaghmīnī s al mulakhkha fī al hay a al basī a* the most widely circulated arabic treatise on ptolemaic astronomy ever written composed in the early 13th century this introductory textbook played a crucial role in the teaching dissemination and institutional instruction of islamic astronomy well into the 19th century and beyond establishing the base text is a fundamental prerequisite for gaining insights into what was considered an elementary astronomical textbook in islam and also for understanding the extensive commentary tradition that built upon it within this volume the *mulakhkha* is situated within the broader context of the genre of literature termed *ilm al hay a* which has become the subject of intensive research over the past 25 years in so doing it provides a survey of summary accounts of theoretical astronomy of *jaghmīnī s* predecessors both ancient and islamic which could have served as potential sources for the *mulakhkha jaghmīnī s* dates which until now remained unsettled are established and it is definitively shown that he composed not only the *mulakhkha* but also other scientific treatises including the popular medical treatise *al qānūnča* during a period that has been deemed one of scientific decline and stagnation in islamic lands the book will be of particular interest to scholars engaged in the study of islamic theoretical astronomy but is accessible to a general readership interested in learning what constituted an introduction to ptolemaic astronomy in islamic lands

the purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present it aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy editorial advisory board andrew aberdein florida institute of technology usa jody azzouni tufts university usa otávio bueno university of miami usa william byers concordia university canada carlo cellucci sapienza university of rome italy chandler davis university of toronto canada 1926 2022 paul ernest university of exeter uk michele friend george washington university usa reuben hersh university of new mexico usa 1927 2020 kyeong hwa lee seoul national university south korea yuri manin max planck institute for mathematics germany 1937 2023 athanase papadopoulos university of strasbourg france ulf persson chalmers university of technology sweden john stillwell university of san francisco usa david tall university of warwick uk 1941 2024 this book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought the richness of mathematics

and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of chandler davis reuben hersh and yuri manin barry mazur gerhard gade university professor harvard university this encyclopedic handbook will be a treat for all those interested in the history and philosophy of mathematics whether one is interested in individuals from pythagoras through newton and leibniz to grothendieck fields geometry algebra number theory logic probability analysis viewpoints from platonism to intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate john stillwell emeritus professor of mathematics university of san francisco recipient of the 2005 chauvenet prize dedicating a volume to the memory of three mathematicians chandler davis reuben hersh and yuri manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief the result a great source of potential inspiration jean pierre bourguignon nicolaas kuiper honorary professor at the institut des hautes Études scientifiques

studies on global metageography are enjoying a revival and in no way is this better referenced than against the geo world system bequeathed by claudius ptolemy almost two thousand years ago this is all the more important when we consider the longevity of the ptolemaic construct through and beyond the european age of discovery allowing as well for its eventual revision or refinement innovations in navigational science cartographic representations and textual description are all called upon to illustrate this theme with its focus upon the macro region termed india extra gangem literally the space between india and china the book unfolds a fourfold agenda first it explains the ptolemaic world system back to classical points of reference as well as to its reception in late medieval europe from arabic sources second it tracks the erosion of the ptolemaic template especially in the light of new empirical data entering europe from early travel accounts as well as the first voyages of discovery third through selected examples as with india southeast asia and china it seeks to expose textual and cartographic adjustments to the classical models flowing from the scientific revolution fourth through an examination of jesuit astronomical observations conducted at various points in asia it demonstrates how eurasia was actually measured and sized with respect to its true longitudinal coordinates such had deluded columbus and even succeeding generations in short this work problematizes the creation of geographical knowledge raises awareness as to the making of region in asia over long historical time the ptolemaic world in motion and as a more latent agenda sounds an alert as to the perils of overdetermination in the setting of modern boundaries whether

upon land or sea

following the footsteps of the elijah task and the eternal church following the cloud presents a prophetic vision of the convergence of science the world and the church which reveals the hand of god in all creation page 4 of cover approximately mid page

this book is a sequel to heaven and earth in ancient greek cosmology springer 2011 with the help of many pictures the reader is introduced into the way of thinking of ancient believers in a flat earth the first part offers new interpretations of several presocratic cosmologists and a critical discussion of aristotle's proofs that the earth is spherical the second part explains and discusses the ancient chinese system called gai tian the last chapter shows that inadvertently ancient arguments and ideas return in the curious modern flat earth cosmologies

since man first looked towards the heavens a great deal of effort has been put into trying to predict and explain the motions of the sun moon and planets developments in man's understanding have been closely linked to progress in the mathematical sciences whole new areas of mathematics such as trigonometry were developed to aid astronomical calculations and on numerous occasions throughout history breakthroughs in astronomy have only been possible because of progress in mathematics this book describes the theories of planetary motion that have been developed through the ages beginning with the homocentric spheres of eudoxus and ending with einstein's general theory of relativity it emphasizes the interaction between progress in astronomy and in mathematics showing how the two have been inextricably linked since babylonian times this valuable text is accessible to a wide audience from amateur astronomers to professional historians of astronomy

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